

# Shubham S. Rangra

Graduate ICT student specialising in Software and Database Development, with hands-on experience building production-ready web and mobile applications. Experience in React, Typescript, Flutter, Firebase, and Azure Functions through real-world projects and an industry internship. Strong interest in backend systems, automation and scalable application design.

 <https://shubr.github.io>

## Technical Skills

- **Languages:** C#, TypeScript, Java Script, Kotlin, SQL
- **Frontend:** React, Vue, HTML/CSS, Flutter
- **Backend:** Azure Functions, Firebase, REST APIs
- **Tools:** Power Automate, Git, Firebase Auth

## Additional Skills

**Additional Skills:** Team Collaboration, Clear Communication, Adaptability

## Projects

 [www.github.com/shubr](https://www.github.com/shubr)

### iMoodle - Student Management System

#### .ASP.NET MVC . C# . REST APIs . Authentication

- Designed the application using **MVC principles**, ensuring clear separation of concerns between model, views and controllers.
- Implemented full **CRUD functionality** for managing students, classes, and enrolments.
- Built **secure authentication and role-based authorisation**, enabling administrators, staff and students to access appropriate features.
- Designed and maintained a **relational SQL Server Database**, managing student records, class assignments and user data.
- Used **Entity Framework** for data access, migrations and query optimisation
- Focused on **data validation, error handling, and maintainable code**, suitable for real-world school usage.

### iNutrition - Mobile Calorie Tracking App

#### .Flutter . Firebase . Firebase Auth

- Developed a **cross-platform mobile application** to help students track daily nutrition and calorie intake
- Implement nurse-assigned calorie goals and real time food logging.
- Used **Firebase Realtime Database** for live data sync and Firebase OAuth for secure user access.
- Designed intuitive dashboards to display nutritional progress and personalised goals.

### Store Management System - Desktop Application

#### C# . WPF . Windows

- Developed a windows desktop application to manage inventory, sales, and receipts for retail store.
- Enabled stock updates, order processing, automatic total calculation, and receipt printing.
- Implemented basic sales and stock reporting to support business decisions.
- Focused on reducing manual errors and improving staff productivity.

## Work history

### Nodero - Internship

February 2025 – June 2025

- **Timesheet Automation Fix:** Diagnosed and resolved internal issues in the timesheet automation system using Azure Functions and API documentation.
- **Workflow Automation:** Designed and implemented a Power Automate workflow connected to Microsoft Lists Form to streamline internal processes and reduce manual workload.
- **Invoice Generation via Azure Functions:** Developed automated invoicing functionality, integrating JIRA and Xero APIs, improving efficiency and accuracy.
- **Integration Testing:** Participated in testing a new integration tool for invoicing and workflow automation prior to team-wide deployment.
- **Backend Development:** Supported backend development by creating new model entities in TypeScript and building custom API endpoints for frontend integration.

## Reference

**Amardeep Singh.** Data Scientist at Healthhub  
a.singh@ucol.ac.nz

**Eddie Easton.** Head of Development at Nodero  
eddie@nodero.com